2,4-Dimethyl-3,6-dihydro-2H-pyran

Inchi: InChI=1S/C7H12O/c1-6-3-4-8-7(2)5-6/h3,7H,4-5H2,1-2H3
InchiKey: ZBIMOHPRBACTOE-UHFFFAOYSA-N
Formula: C7H12O
SMILES: CC1=CCOC(C)C1
Mol. weight [g/mol]: 112.17

Physical Properties

Property code	Value	Unit	Source
gf	-33.28	kJ/mol	Joback Method
hf	-219.18	kJ/mol	Joback Method
hfus	14.53	kJ/mol	Joback Method
hvap	37.07	kJ/mol	Joback Method
log10ws	-1.70		Crippen Method
logp	1.742		Crippen Method
mcvol	100.200	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
rinpol	973.00		NIST Webbook
tb	410.20	K	Joback Method
tc	616.97	K	Joback Method
tf	215.88	K	Joback Method
vc	0.367	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	191.82	J/mol×K	410.20	Joback Method
cpg	205.84	J/mol×K	444.66	Joback Method
cpg	219.21	J/mol×K	479.12	Joback Method
cpg	231.93	J/mol×K	513.58	Joback Method
cpg	244.03	J/mol×K	548.05	Joback Method
cpg	255.52	J/mol×K	582.51	Joback Method
cpg	266.40	J/mol×K	616.97	Joback Method
dvisc	0.0038057	Pa×s	215.88	Joback Method
dvisc	0.0018725	Pa×s	248.27	Joback Method

dvisc	0.0010852	Pa×s	280.65	Joback Method
dvisc	0.0007040	Pa×s	313.04	Joback Method
dvisc	0.0004954	Pa×s	345.43	Joback Method
dvisc	0.0003702	Pa×s	377.81	Joback Method
dvisc	0.0002897	Pa×s	410.20	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R614972&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume